

Docket No.: 3749-0111PUS1 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Yasuhiro NISHIDA et al.

Application No.: 10/579,338

Filed: May 15, 2006

For: NOVEL CAROTENOID HYDROXYLASE GENE, METHOD FOR PREPARING HYDROXYLATED CAROTENOID, AND

> NOVEL GERANYLGERANYL PYROPHOSHATE SYNTHASE

Confirmation No.: 1932

Art Unit: N/A

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (SUBMISSION AFTER FILING OF AN APPLICATION BUT BEFORE FINAL REJECTION OR NOTICE OF ALLOWANCE OR CONCURRENTLY WITH A RULE 4.114 RCE APPLICATION)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION L

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-SB08(s), attached hereto.

II. COPIES

Copies of cited U.S. patents and patent application publications are not included.

Copies of foreign patent documents and non-patent literature are included.

Birch, Stewart, Kolasch & Birch, LLP

MAA/bsh

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b. Some or all of the documents listed on the PTO-SB08 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.

c. REFERENCES PREVIOUSLY CITED OR SUBMITTED - Pursuant to 37 C.F.R. §1.98(d), consideration of information listed on the PTO-SB08 form(s) is requested since any patents, publications, or other information which are listed on the PTO-SB08 form(s) but for which copies are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Appl. No(s) and U.S. Filing Date

Ш	a.	DOCUMENTS IN THE ENGLISH LANGUAGE - The patents, publications, of other
inforn	ation li	sted on the attached PTO SB08 are in the English language and therefore, do not
requir	e a state	ment of relevancy.
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\boxtimes	b.	DOCUMENTS NOT IN THE ENGLISH LANGUAGE - A concise explanation of the
releva	nce of	all patents, publications, or other information listed that is not in the English
langua	ige is as	follows: An English translation of WO 2005/118812 A1 is attached.

CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

III.

- c. <u>ENGLISH LANGUAGE SEARCH REPORT</u> An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(III)(A)(3).
- d. OTHER The following additional information is provided for the Examiner's consideration. The two Misawa references listed on the foreign Office Action were previously cited in an Information Disclosure Statement filed on July 25, 2006.

Docket No.: 3749-0111PUS1 Application No.: 10/579,338 ΙV FEES (check one box) This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required. This Information Disclosure Statement is being filed concurrent with the filing of a continuation-in-part, continuation, or divisional patent application; therefore, no fee is required. This Information Disclosure Statement is being filed within three months of the C. filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required. (This section is not to be used with RCE's.) This Information Disclosure Statement is being filed within three months of the d. date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required. This Information Disclosure Statement is being filed concurrently with the filing of a Request for Continued Examination under § 1.114 (37 C.F.R. § 1.97(b)(4)). No fee or statement is required. \boxtimes This Information Disclosure Statement is being filed before the mailing date of a f. first Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) below, or, if no statement has been made, charge our deposit account for the fee as required by 37 C.F.R. § 1.17(p). This Information Disclosure Statement is being filed before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)(1)) or before the mailing

date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)(2)).

or

No statement; therefore, a fee as required by 37 C.F.R. § 1.17(p) is attached.

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See the statement below. No fee is required.

V.	STATE	MEN'	<u>r une</u>	ER	37 C.F.R. §	1.97(e)								
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	The un	dersigr	ed her	eby	states that:									
	a.	Each	item	of	information	contained	in	the	IDS	was	first	cited	in :	any
comm	unicatio	n fron	n a fo	reig	n Patent Off	ice in a cou	nte	rpar	t fore	ign a	pplica	ation n	ot m	ore
than 3	0 days	prior t	o the f	ilin	g of this IDS	; or								
		n from	a fore	eign	information Patent Office of this IDS; of	e in a count								
signing	c. No item of information contained in the IDS was cited in a communication from a reign Patent Office in a counterpart foreign application, and, to the knowledge of the person gning the certification after making reasonable inquiry, no item of IDS was known to any dividual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the NS.													
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VI.	PAYMENT	OF FEES	(check one	box)
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No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated:

FFR - 1 2007

Respectfully submitted,

Mary Anne Armstrong Registration No.: 40,069

BIRCH, STEWART, KOLASCH & BIRCH, LLP 8110 Gatehouse Road

Suite 100 East P.O. Box 747

Falls Church, Virginia 22040-0747 (703) 205-8000

Attorney for Applicant

Attachment(s):

PTO-SB08
Documents
Foreign Off

Foreign Office Action

Other:

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PTO/SB/08A/B (09-06)
Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

6	stitute for form 1449/PT0	`		Complete if Known			
Suc	Stitute for form 1445FF 14	,		Application Number	10/579,338-Conf. #1932		
11	NFORMATIC	N DI	SCLOSURE	Filing Date	May 15, 2006		
S	TATEMENT	BY	APPLICANT	First Named Inventor	Yasuhiro NISHIDA		
_				Art Unit	N/A		
	(Use as many	sheets as	necessary)	Examiner Name	Not Yet Assigned		
Sheet	1	of	1	Attorney Docket Number	3749-0111PUS1		

	U.S. PATENT DOCUMENTS								
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant				
Initials*	No 1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Figures Appear				
/G.R	AA*	US-5,429,939	07-04-1995	Misawa et al.					

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁶ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
/G.R./	BA	WO-2005/118812-A1	12-15-2005			x			

"EXAMINER: Initial if reference considered, whether or not citation is in conformence with MPEP 609. Drew line through clastion if not in conformence and not considered, include copy of this form with next communication to application." CTER NO. Those explications by which are marked with an single subtlex (i) made to the CIBN is not an subjusted (under 20 FGR 1.59e(x)/GIII) because that application was find after June 3,000 or a warring of the 1991. "Applicant's unique classific designation number (optional)." See sends Codes of USEP 10 FO June 10 FO JUN

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, calalog, etc.), date, page(s), volume-lessue number(s), publisher, city and/or country where published.	T2
/G.R	CA	Nishida et al., Applied and Environmental Microbiology, Vol. 71, No. 8, pp.4286-4296 (August 2005)	
7G.R./	СВ	Choi et al., Appl. Microbiol. Biotechnol., Vol. 72, No. 6, pp.1238-1246 (October 2006)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformence with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Applicant's unique citation designation number (optional) 2Applicant is to place a check mark here if English language Translation is attached